

Title (en)
DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR, AND DISPLAY APPARATUS

Title (de)
ANZEIGETAFEL UND HERSTELLUNGSVERFAHREN DAFÜR SOWIE ANZEIGEVORRICHTUNG

Title (fr)
Panneau d'affichage et son procédé de fabrication, et appareil d'affichage

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EP 3767680 A4 20211215 (EN)

Application
EP 18909397 A 20181115

Priority
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Abstract (en)
[origin: EP3767680A1] A display panel and a manufacturing method thereof, and a display device are disclosed, belonging to the technical field of display. The display panel includes: a substrate, and a plurality of pixel units and a pixel defining layer which are located on the substrate; each pixel unit comprises an anode, an organic functional layer and a cathode; the pixel defining layer includes a first defining layer and a second defining layer; the first defining layer is located on a side of the second defining layer away from the substrate, an orthographic projection of the first defining layer on the substrate covers an orthographic projection of the second defining layer on the substrate, an opening area of the first defining layer is smaller than an opening area of the second defining layer so as to form a groove, and at least a portion of an edge region of the organic functional layer is located in the groove, so that an orthographic projection of at least the portion of the edge region of the organic functional layer on the substrate falls into the orthographic projection of the first defining layer on the substrate. Therefore, at least the portion of the edge region of the organic functional layer may be not in contact with the cathode, and does not emit light during display, thereby facilitating the improvement of the brightness uniformity of the display panel.

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Citation (search report)
• [X] JP 2008091071 A 20080417 - SEIKO EPSON CORP
• [X] CN 107706222 A 20180216 - BOE TECHNOLOGY GROUP CO LTD & US 2019096968 A1 20190328 - ZHANG YUXIN [CN], et al
• See also references of WO 2019174289A1

Designated contracting state (EPC)
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